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1 Techniques for obtaining high performance in Java programs

Iffat H. Kazi, Howard H. Chen, Berdenia Stanley, David J. Lilja September 2000 Computing Surveys (CSUR), Volume 32 Issue 3

Publisher: ACM <sup>®</sup> Request Permissions Full text available: 

Pof (816.13 KB)

Additional Information: full citation, abstra

Bibliometrics: Downloads (6 Weeks): 77, Downloads (12 Months): 487, Downloads

This survey describes research directions in techniques to improve the p Java programming language. The standard technique for Java execution extensive portability of programs. ...

**Keywords**: Java, Java virtual machine, bytecode-to-source translators, interpreters, just-in-time compilers

2 Immutability specification and its applications

Igor Pechtchanski, Vivek Sarkar

November 2002 JGI '02: Proceedings of the 2002 joint ACM-ISCOPE confer

Publisher: ACM

Full text available: Pdf (203.07 KB)

Additional Information: full citation, abstra

Bibliometrics: Downloads (6 Weeks): 0, Downloads (12 Months): 17, Downloa

A location is said to be *immutable* if its value and the values of selected guaranteed to remain unchanged during a specified time interval. We in *specification*, and ...

**Keywords**: annotations, immutability, optimization

3 TotalProf: a fast and accurate retargetable source code profiler

Lei Gao, Jia Huang, Jianjiang Ceng, Rainer Leupers, Gerd Ascheid, Heinrich October 2009 CODES+ISSS '09: Proceedings of the 7th IEEE/ACM internal codesign and system synthesis

Publisher: ACM Pequest Permissions

Full text available: Pdf (907.72 KB) Additional Information: full citation, abstra

Bibliometrics: Downloads (6 Weeks): 13, Downloads (12 Months): 13, Downlo

Profilers play an important role in software/hardware design, optimization

have been proposed to implement profilers. The most widespread approach Instruction Set Simulation (ISS) ...

**Keywords**: architecture description language, instruction set simulation profiling

4 A lazy developer approach: building a JVM with third party software

Nicolas Geoffray, Gaël Thomas, Charles Clément, Bertil Folliot September 2008 **PPPJ '08:** Proceedings of the 6th international symposium programming in Java

Publisher: ACM

Full text available: Pdf (737.39 KB) Additional Information: full citation, abstra

Bibliometrics: Downloads (6 Weeks): 6, Downloads (12 Months): 74, Downloa

The development of a complete Java Virtual Machine (JVM) implemental knowledge in different areas: garbage collection, just in time compilation structures, etc. The result is ...

Keywords: BoehmGC, GNU classpath, Java, JnJVM, LLVM

5 Survey of code-size reduction methods

Árpád Beszédes, Rudolf Ferenc, Tibor Gyimóthy, André Dolenc, Konsta Kar September 2003 **Computing Surveys (CSUR)**, Volume 35 Issue 3

Publisher: ACM 🦃 Request Permissions

Full text available: Fdi (443.89 KB)

Additional Information: full citation, abstra

Bibliometrics: Downloads (6 Weeks): 36, Downloads (12 Months): 266, Downloads

Program code compression is an emerging research activity that is having such as networking and embedded systems. This is because the reduced on network traffic and embedded ...

Keywords: code compaction, code compression, method assessment, i

6 Statistically rigorous java performance evaluation

Andy Georges, Dries Buytaert, Lieven Eeckhout
October 2007 OOPSLA '07: Proceedings of the 22nd annual ACM SIGPLAN programming systems and applications

Publisher: ACM 🥍 Request Permissions

Full text available: Pdf (1.63 MB)

Additional Information: full citation, abstra

Bibliometrics: Downloads (6 Weeks): 23, Downloads (12 Months): 178, Downl

Java performance is far from being trivial to benchmark because it is affapplication, its input, the virtual machine, the garbage collector, the heat run-time causes ...

**Keywords**: benchmarking, data analysis, java, methodology, statistics

Also published in:

October 2007 SIGPLAN Notices Volume 42 Issue 10

7 Revisiting Out-of-SSA Translation for Correctness, Code Quality and Benoit Boissinot, Alain Darte, Fabrice Rastello, Benoit Dupont de Dinechin, March 2009 CGO '09: Proceedings of the 2009 International Symposium of Publisher: IEEE Computer Society

Full text available: Pdf (287.20 KB)

Additional Information: full citation, abstra

Bibliometrics: Downloads (6 Weeks): 19, Downloads (12 Months): 80, Downlo

Static single assignment (SSA) form is an intermediate program represe optimizations can be performed with fast and easy-to-implement algorit optimizations create situations where the SSA variables ...

Keywords: SSA form, Compilers, JIT-compilation

8 Optimizing JIT-compilation subsystem for Rotor 2.0

Sophia Chilingarova
October 2006 OOPSLA '06: Companion to the 21st ACM SIGPLAN symposius systems, languages, and applications

Publisher: ACM Pequest Permissions
Full text available: Pdf (184.57 KB)

Additional Information: full citation, abstra

Bibliometrics: Downloads (6 Weeks): 6, Downloads (12 Months): 37, Downloa

The poster describes the design and implementation of the optimizing J (Rotor) 2.0 virtual machine. This presentation covers overall design of t fast algorithm for the 1st level ...

**Keywords**: CIL, CLI, JIT-compilation, Rotor, SSCLI, optimization

Ocde generation for just-in-time compiled mobile collector agents John G. Allen, Jesse S. Jin

May 2003 VIP '02: Selected papers from the 2002 Pan-Sydney wo

Publisher: Australian Computer Society, Inc.

Full text available: Pdf (38.50 KB) Additional Information: full citation, abstra

Bibliometrics: Downloads (6 Weeks): 2, Downloads (12 Months): 13, Downloa

This paper describes MGEN/x86, a toolkit that simplifies the process of  $\mathfrak l$  just-in-time (JIT) compilers for the x86 series of processor. MGEN produbased on a user-defined sequence ...

**Keywords**: JIT, assemble, collector, compiler, mobile, x86

10 Attacking the semantic gap between application programming language Greg Snider, Barry Shackleford, Richard J. Carter

February 2001 **FPGA '01:** Proceedings of the 2001 ACM/SIGDA ninth intern programmable gate arrays

Publisher: ACM Request Permissions

Full text available: Pdf (258.65 KB)

Additional Information: full citation, abstra

Bibliometrics: Downloads (6 Weeks): 10, Downloads (12 Months): 50, Downlo

It is difficult to exploit the massive, fine-grained parallelism of configura application programoming language such as C, Pascal or Java. The diffic the synchronous, concurrent processing ...

# 11 LLVA: A Low-level Virtual Instruction Set Architecture

Vikram Adve, Chris Lattner, Michael Brukman, Anand Shukla, Brian Gaeke December 2003 MICRO 36: Proceedings of the 36th annual IEEE/ ACM Inte Microarchitecture

Publisher: IEEE Computer Society Full text available: 196: (196.08 KB)

Additional Information: full citation, abstra

Bibliometrics: Downloads (6 Weeks): 2, Downloads (12 Months): 32, Downloa

A virtual instruction set architecture (V-ISA) implementedvia a processor provide great flexibility to processor designers. Recentexamples such as existing hardware instruction ...

12 Wavelet synopsis for data streams: minimizing non-euclidean error

Sudipto Guha, Boulos Harb

\*August 2005 KDD '05: Proceedings of the eleventh ACM SIGKDD internation in data mining

Publisher: ACM Pequest Permissions
Full text available: Pdf (303.82 KB)

Additional Information: full citation, abstra

Bibliometrics: Downloads (6 Weeks): 9, Downloads (12 Months): 80, Downloa

We consider the wavelet synopsis construction problem for data stream estimate the data by constructing a synopsis, whose size, say B is much chosen to minimize a suitable error between ...

Keywords: streaming algorithm, wavelet synopses

13 Design of the Java HotSpot™ client compiler for Java 6

Thomas Kotzmann, Christian Wimmer, Hanspeter Mössenböck, Thomas Ro May 2008 Transactions on Architecture and Code Optimization (TA

Publisher: ACM Pequest Permissions
Full text available: Pcii (1.14 MB)

Additional Information: full citation, abstra

Bibliometrics: Downloads (6 Weeks): 40, Downloads (12 Months): 433, Downl

Version 6 of Sun Microsystems' Java HotSpot  $^{\text{TM}}$  VM ships with a redesign compiler that includes several research results of the last years. The clie configuration used by default ...

**Keywords**: Java, compiler, deoptimization, intermediate representation register allocation

14

Application of a multi-criteria simulation optimization based DSS A. Azadeh, S. F. Ghaderi, A. Dabbaghi, M. Dehghanbaghi

July 2007 SCSC: Proceedings of the 2007 summer computer simulation

Publisher: Society for Computer Simulation International

Full text available: Pdf (209.58 KB) Additional Information: full citation, abstra

Bibliometrics: Downloads (6 Weeks): 4, Downloads (12 Months): 43, Downloa

In this study we propose a decision support system for a textile dyeing, proposed simulation model itself, enables managers to find a schedule c combination of decision parameters) ...

**Keywords**: goal programming, metamodel, multi-criteria decision maki quantitative factors

15 QVM: an efficient runtime for detecting defects in deployed systems Matthew Arnold, Martin Vechev, Eran Yahav

October 2008 **OOPSLA '08:** Proceedings of the 23rd ACM SIGPLAN confere systems languages and applications

Publisher: ACM № Request Permissions
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Additional Information: full citation, abstra

Bibliometrics: Downloads (6 Weeks): 27, Downloads (12 Months): 246, Downloads

Coping with software defects that occur in the post-deployment stage is only when the system uses a specific configuration and only under certa production systems until the ...

Keywords: algorithms, reliability, virtual machines

Also published in:

October 2008 SIGPLAN Notices Volume 43 Issue 10

16 FlightTracker: A Novel Optical/Inertial Tracker for Cockpit Enhanced Eric Foxlin, Yury Altshuler, Leonid Naimark, Mike Harrington

November 2004 ISMAR '04: Proceedings of the 3rd IEEE/ACM Internationa Reality

Publisher: IEEE Computer Society

Full text available: Pdi (410.78 KB) Additional Information: full citation, abstra

Bibliometrics: Downloads (6 Weeks): 10, Downloads (12 Months): 69, Downlo

One of the earliest fielded augmented reality applications was enhanced projected on the pilot's visor provides geo-spatially registered informationstacles, maintain situational ...

17 A novel approach for flexible and consistent ADL-driven ASIP design Sunnar Braun, Achim Nohl, Weihua Sheng, Jianjiang Ceng, Manuel Hohens Leupers, Heinrich Meyr

June 2004 DAC '04: Proceedings of the 41st annual Design Automation (

Publisher: ACM Neguest Permissions

Full text available: Pdf (204.60 KB)

Additional Information: full citation, abstra

Bibliometrics: Downloads (6 Weeks): 7, Downloads (12 Months): 33, Downloa

Architecture description languages (ADL) have been established to aid t instruction-set processors (ASIP). Their main contribution is the automaincluding C compiler, assembler, linker, ...

Keywords: ADL, ASIP, embedded processors

18 Scratch-pad memory allocation without compiler support for java app. Nghi Nguyen, Angel Dominguez, Rajeev Barua

September 2007 **CASES '07:** Proceedings of the 2007 international conference synthesis for embedded systems

Publisher: ACM

Full text available: Pdf (323.73 KB)

Additional Information: full citation, abstra

Bibliometrics: Downloads (6 Weeks): 7, Downloads (12 Months): 73, Downloa

This paper presents the first scratch-pad memory allocation scheme tha interpreted-language based applications. A scratch-pad memory(SPM) is replaces the hardware-managed cache. Its ...

Keywords: JIT, JVM, compiler, embedded systems, java, memory alloc

19 LLVM: A Compilation Framework for Lifelong Program Analysis & Tr Chris Lattner, Vikram Adve

March 2004 **CGO '04:** Proceedings of the international symposium on Coddirected and runtime optimization

Publisher: IEEE Computer Society

Full text available: Pdf (256.90 KB)

Additional Information: full citation, abstra

Bibliometrics: Downloads (6 Weeks): 32, Downloads (12 Months): 190, Downl

This paper describes LLVM (Low Level Virtual Machine), a compiler frame lifelongprogram analysis and transformation for arbitrary programs, by proposed compiler transformations at compiler time, ...

20 Concurrent GC leveraging transactional memory

Phil McGachey, Ali-Reza Adi-Tabatabai, Richard L. Hudson, Vijay Menon, Br February 2008 **PPoPP '08:** Proceedings of the 13th ACM SIGPLAN Symposi programming

Publisher: ACM Nequest Permissions

Full text available: Pdf (470.71 KB) Additional Information: full citation, abstra

Bibliometrics: Downloads (6 Weeks): 2, Downloads (12 Months): 101, Downlo

We predict that the ever-growing number of cores on our desktops will programming. Two technologies are likely to become mainstream in res superior programming model to traditional ...

**Keywords**: compiler optimizations, concurrent garbage collection, stror transactional memory, virtual machines

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